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Christina M. Doyle

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15 March 2005

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Date

Attorney Docket No. B45308

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Morales, *et al.* 15 March 2005
Int'l Serial No.: PCT/EP03/06094 Art Unit: unknown
Int'l Filing Date: 10 June 2003 Examiner: unknown
For: VACCINE COMPRISING MIXTURES OF MULTIVALENT
MENINGOCOCCAL OUTER MEMBRANE VESICLES

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

STATUS INQUIRY

Sirs:

Applicants spoke with Debbie of the PCT Help Desk on 15 March 2005. Debbie was unable to retrieve any record of submission by international application number or attorney docket number. Enclosed, please find a copy of the submission to the USPTO filed 13 December 2004, the return express mail receipt, and the returned post card date stamped by the PCT/PTO.

Applicants have received no further correspondence or communications from the Commissioner of Patents concerning this case.

Applicant requests the current status of the application.

Respectfully submitted,

Jason C. Fedon

Jason C. Fedon
Agent for Applicants

Registration No. 48,138

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04/06/2005 CSM001 00000002 192570 10529064
Sale Ref: 00000003 DAB: 192570 10529064
01 FC:1631 300.00 DA

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B45308 JLF/and

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DOCKET No. B45308 Date Mailed 13 Dec 04 Atty/Secy JLF/andMAILING: ~~CERTIFICATE~~ EXPRESS MAIL # EV608165276U.S. Serial No.: Unknown Filing Date: herewithInt'l App. No.: PCT/EP03/06094 Int'l Filing Date: 10 June 2003

RECEIPT IS ACKNOWLEDGED FOR THE FOLLOWING:

- ☐ Appln. Trans. (+ 1 copy) for: ☐ Provisional ☐ CIP ☐ Statement to Support Filing
- ☐ Utility/Continuation ☐ CPA ☐ RCE ☐ Divisional ☐ Copy of Notice to Comply
- ☐ Specification pages ☒ Abstract 1 pgs ☐ Diskette ☐ Paper Seq. Listing
- ☐ Dec. & Power of Atty pages () ☐ Appeal Brief pages
- ☐ Drawings Sheet(s)/Figs to ☐ Petition pgs.
- ☐ Assignment pages & Recordation Cover Sheet ☐ Status Request
- ☒ Trans. Ltr Nat'l Stage Entry (3pgs.) ☐ Trans. Nat'l Stage (2nd sub)
- ☒ Information Disclosure Statement ☐ Resp. to Written Opinion
- ☒ Form PTO-1449 1 pgs. ☐ Priority Document
- ☒ Amendment ☐ Response 5 pages ☐ Notice of Appeal/Brief
- ☐ Petition for Extension of Time ☐ Resp. to Rest. Req. pgs.
- ☐ Issue Fee Trans. (Part B) + 1 copy ☐ Req. to Correct Filing Receipt
- ☐ Copy of Notice to File Missing Parts ☐ Copy of Filing Receipt
- ☐ Request for Nonpublication (1 pg) ☐ Cert. of Correction (2) pgs. x2
- ☒ Authorization to Charge Dep. Acct. # 19-2570 ☐ Postcard

US Rec'd PCT/PTO 13 DEC 2004

Form PTO 1390 (REV 5-93)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER B45308
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED / ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)
INTERNATIONAL APPLICATION NO. PCT/EP03/006094	INTERNATIONAL FILING DATE 10 June 2003	PRIORITY DATE CLAIMED 13 June 2002	
TITLE OF INVENTION VACCINE COMPRISING MIXTURES OF MULTIVALENT MENINGOCOCCAL OUTER MEMBRANE VESICLES			
APPLICANT(S) FOR DO/EO/US Ramon F. BARBERA MORALES, Pierre M. DESMONS, Francisco J. DOMINGUEZ ALVAREZ, and Jan POOLMAN			

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; and Form PTO-1449.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
(Add claim to priority via Preliminary Amendment for US originating cases only)
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☒ An Abstract on a separate sheet of paper.
18. ☒ Copy of Form PCT/ISA/210.
19. ☐ Other items or information.


FEE VALUE ACCOUNTABILITY	
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19	2570
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1642	400
1635	200
(c)(3))	

US APPLICATION NO. (if known) 37 CFR 1.50		INTERNATIONAL APPLICATION NO. PCT/EP03/006094		ATTORNEYS DOCKET NO. B45308	
20. [X] The following fees are submitted:				CALCULATIONS PTO USE ONLY	
Basic National Fee (37 C.F.R. 1.492(a)(1)-(5)):					
Search Report has been prepared by the EPO or JPO\$950.00					
International Preliminary Examination Fee paid to USPTO (37 CFR 1.492)\$750.00					
No International Preliminary Examination Fee paid to USPTO (37 CFR 1.492) but international search fee paid to USPTO (37 CFR 1.445(a)(2))\$790.00					
Neither International Preliminary Examination Fee (37 CFR 1.492) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$1,110.00					
International Preliminary Examination Fee paid to USPTO (37 CFR 1.492) and all claims satisfied provisions of PCT Article 33(2)-(4).....\$100.00					
ENTER APPROPRIATE BASIC FEE AMOUNT =				\$950.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$0.00	
Claims	Number Filed	Number Extra	Rate		
Total claims	14 - 20 =	0	0 x \$18.00	\$0.00	
Independent claims	1- 3 =	0	0 x \$88.00	\$0.00	
Multiple dependent claims (if applicable)			+ \$300.00	\$0.00	
TOTAL OF ABOVE CALCULATIONS =				\$950.00	
Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28).				\$	
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Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)) +				\$	
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- a. ☐ A check in the amount of \$_____ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 19-2570 in the amount of \$950.00 to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-2570. A duplicate copy of this sheet is enclosed.
- d. ☒ General Authorization to charge any and all fees under 37 CFR 1.16 or 1.17, including petitions for extension of time relating to this application (37 CFR 1.136 (a)(3)).

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:
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SIGNATURE
James M. Kanagy
NAME
29,550
REGISTRATION NO.

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PATENT
ATTORNEY'S DOCKET NUMBER B45308TRANSMITTAL LETTER TO THE U.S. DESIGNATED OFFICE
(DO/US) - ENTRY INTO NATIONAL STAGE UNDER 35 USC 371

INTERNATIONAL APP. NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/EP03/006094	10 June 2003	13 June 2002

TITLE OF INVENTION
VACCINE COMPRISING MIXTURES OF MULTIVALENT MENINGOCOCCAL OUTER
MEMBRANE VESICLES

APPLICANT(S) FOR DO/US
Ramon F. BARBERA MORALES, Pierre M. DESMONS, Francisco J. DOMINGUEZ
ALVAREZ, and Jan POOLMAN

Commissioner for Patents
Mail Stop: PCT
P.O. Box 1450
Alexandria, VA 22313-1450
ATTENTION: DO/US

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Transmittal Letter, Form PTO 1390 and the papers indicated as being transmitted therewith, and Post Card are being deposited with the United States Postal Service on this date **13 December 2004** in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number **EV608165276US** addressed to the:

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Attorney Docket No. B45308

INTERNATIONAL APP. NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/EP03/006094	10 June 2003	13 June 2002

TITLE OF INVENTION

VACCINE COMPRISING MIXTURES OF MULTIVALENT MENINGOCOCCAL OUTER
MEMBRANE VESICLES

APPLICANT(S) FOR DO/US

Ramon F. BARBERA MORALES, Pierre M. DESMONS, Francisco J. DOMINGUEZ
ALVAREZ, and Jan POOLMANFILING OF AN INFORMATION DISCLOSURE STATEMENT

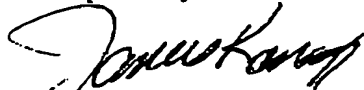
Applicants request that the references identified on Form PTO-1449 appended hereto be considered by the Examiner and officially made of record in accordance with the provisions of 37 CFR 1.97

☒ A copy of the International Search Report, which issued on International Application No. PCT/EP03/006094 is submitted herewith. All of the publications cited in the International Search Report are listed on the attached form PTO-1449 and Applicants understand that copies have been supplied to the U.S. Patent Office by the International Bureau.

☐ Copies of references not listed on the International Search Report are enclosed.

The attached list of citations on PTO Form 1449 is being submitted under the provisions of 37 CFR §1.56 and §1.97 in order to comply with the duty of disclosure. Their inclusion herein should not, however, be construed as an admission that any particular cited reference is effective prior art or that it discloses or renders obvious any aspect of the claimed invention. This statement is being filed within the time period specified in 37 CFR §1.97(b). No fee is required.

Respectfully submitted,

James M. Kanagy
Attorney for Applicants
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13 DEC 2004

Sheet 1 of 1

Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET NO. B45308	INTERNATIONAL APPLICATION NO. PCT/EP03/006094
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT Ramon F. BARBERA MORALES, Pierre M. DESMONS, Francisco J. DOMINGUEZ ALVAREZ, and Jan POOLMAN	
		FILING DATE Herewith	GROUP

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No
WO 01/09350	8 Feb 04	WIPO				
WO 02/09643	7 Feb 02	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	DeKleijn et al., <i>Vaccine</i> , Vol. 18(15) pgs 1456-1466 (2000)
	Jodar et al., <i>Lancet</i> , Vol. 359 (9316) pgs 1499-1508 (2002)
	Milahres et al., <i>Infection and Immunity</i> , Vol. 66 (10) pgs 4755-4761 (1988)
	Pollard et al., <i>Archives of Disease in Childhood</i> , Vol. 87 (1) pgs 13-17 (2002)
	Sacchi et al., <i>Journal of Clinical Microbiology</i> , Vol. 39 (8) pgs 2897-2903 (2001)
	Tappero et al., <i>JAMA (Journal of the American Medical Association)</i> , Vol. 281 (16) pgs 1520-1527 (1999)
	Tondella et al., <i>Journal of Clinical Microbiology</i> , Vol. 38(9) pgs 3323-3328 (2000)
	Van Der Voort et al., <i>Vaccine</i> , Vol. 18 (14) pgs 1334-1343 (2000)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property
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(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 2003/105890 A3

- (51) International Patent Classification: **A61K 39/095**
- (21) International Application Number: **PCT/EP2003/006094**
- (22) International Filing Date: **10 June 2003 (10.06.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0213622.4 13 June 2002 (13.06.2002) GB
- (71) Applicants (for all designated States except US): **GLAXOSMITHKLINE BIOLOGICALS S.A. (BE/BE)**; Rue de l'Institut 89, B-1330 Rixensart (BE). **INSTITUTO FINLAY [CU/CU]**; Centro de Investigacion-Produccion de Sueros y Vacunas, Ave 27 No. 19805, La Coronela, La Lisa Ciudad de la Habana (CU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BARBERA MORALES, Ramon, Faustino [CU/CU]**; Finlay Institute, Ave 27 No. 19805, La Coronela, La Lisa Ciudad de la Habana (CU). **DESMONS, Pierre, Michel [BE/BE]**; GlaxoSmithKline Biologicals s.a., Rue de l'Institut 89, B-1330 Rixensart (BE). **DOMINGUEZ ALVAREZ, Francisco, Jesus [CU/CU]**; Finlay Institute, Ave 27 No. 19805, La Coronela, La Lisa Ciudad de la Habana (CU). **POOLMAN, Jan [NL/BE]**; GlaxoSmithKline Biologicals s.a., Rue de l'Institut 89, B-1330 Rixensart (BE).
- (74) Agent: **LUBENSKI, Michael, John**; GlaxoSmithKline, 980 Great West Road, Brentford, Middlesex TW8 9GS (GB).
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:**
- with international search report
- before the expiration of the time limit for amending the claims and in be republished in the event of receipt of amendments
- (88) Date of publication of the International search report: **25 March 2004**
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the International search report:
25 March 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: VACCINE COMPRISING MIXTURES OF MULTIVALENT MENINGOCOCCAL OUTER MEMBRANE VESICLES

(57) **Abstract:** The present invention relates to vaccine compositions for the effective prevention or treatment of neisserial, preferably meningococcal, disease. The vaccines of the invention comprise a multivalent meningococcal bleed composition comprising at least one bleed with homologous bactericidal activity which is derived from a meningococcal strain with a serosubtype that is prevalent in a country of use, and at least one bleed with heterologous bactericidal activity which is derived from a meningococcal strain which need not have a serosubtype that is prevalent in the country of use.

WO 2003/105890 A3

INTERNAL SEARCH REPORT

 International No.
 PCT/EP/06094

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61K39/095

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, EMBASE, PAJ, CHEM ABS Data, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 09643 A (GRANOFF DAN ;MOE GREGORY R (US); CHILDREN S HOSPITAL OAKLAND RE (U) 7 February 2002 (2002-02-07) cited in the application	1,12, 17-19
Y	claims 1,5,7,10,14-16,29 page 14, line 24 -page 15, line 12 page 18, line 31 -page 19, line 8 page 24, line 29-32 page 26, line 16-26 page 27, line 4-11 -& MOE-GR: "Differences in surface expression of NspA among Neisseria meningitidis group B strains" INFECTION AND IMMUNITY, vol. 67, no. 11, November 1999 (1999-11), pages 5664-5675, XP002266209 table 1 -/-	1-19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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- *Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

7 January 2004

Date of mailing of the international search report

04/02/2004

Name and mailing address of the ISA

 European Patent Office, P.B. 5618 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 851 epo nl,
 Fax: (+31-70) 340-3018

Authorized officer

Lechner, O

INTERNATIONAL SEARCH REPORT

 PCT/EP 06094
 International No

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 09350 A (DALEMANS WILFRIED L J ;SMITHKLINE BEECHAM BIOLOG (BE); THIRY GEORG) 8 February 2001 (2001-02-08) cited in the application the whole document	1-19
Y	JODAR L ET AL: "Development of vaccines against meningococcal disease" LANCET, vol. 359, no. 9316, 27 April 2002 (2002-04-27), pages 1499-1508, XP004350750 ISSN: 0140-6736 abstract paragraph 'INTRODUCTION! page 1502, right-hand column, last paragraph -page 1504, right-hand column	1-19
A	TAPPERO JORDAN W ET AL: "Immunogenicity of 2 serogroup B outer-membrane protein meningococcal vaccines: A randomized controlled trial in Chile" JAMA (JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION), vol. 281, no. 16, 28 April 1999 (1999-04-28), pages 1520-1527, XP009022137 ISSN: 0098-7484 cited in the application the whole document	1-19
A	SACCHI CLAUDIO T ET AL: "Serosubtypes and PorA types of Neisseria meningitidis serogroup B isolated in Brazil during 1997-1998: Overview and implications for vaccine development" JOURNAL OF CLINICAL MICROBIOLOGY, vol. 39, no. 8, August 2001 (2001-08), pages 2897-2903, XP002263474 ISSN: 0095-1137 abstract	1-19
A	VAN DER VOORT EILEENE ROUPPE ET AL: "Immunogenicity studies with a genetically engineered hexavalent PorA and a wild-type meningococcal group B outer membrane vesicle vaccine in infant cynomolgus monkeys" VACCINE, vol. 18, no. 14, 31 January 2000 (2000-01-31), pages 1334-1343, XP002263475 ISSN: 0264-410X abstract	1-19
	--- -/--	

INTERNATIONAL SEARCH REPORT

 Int. Classification No.
 PCT/EP/03/06094

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DE KLEIJN E D ET AL: "Immunogenicity and safety of a hexavalent meningococcal outer-membrane-vesicle vaccine in children of 2-3 and 7-8 years of age." VACCINE. ENGLAND 14 FEB 2000, vol. 18, no. 15, 14 February 2000 (2000-02-14), pages 1456-1466, XP002263476 ISSN: 0264-410X abstract</p>	1-19
A	<p>TONDELLA MARIA LUCIA C ET AL: "Distribution of Neisseria meningitidis serogroup B serosubtypes and serotypes circulating in the United States" JOURNAL OF CLINICAL MICROBIOLOGY, vol. 38, no. 9, September 2000 (2000-09), pages 3323-3328, XP002263477 ISSN: 0095-1137 abstract</p>	1-19
A	<p>MILAGRES LUCIMAR G ET AL: "Specificity of bactericidal antibody response to serogroup B meningococcal strains in Brazilian children after immunization with an outer membrane vaccine" INFECTION AND IMMUNITY, vol. 66, no. 10, October 1998 (1998-10), pages 4755-4761, XP002263478 ISSN: 0019-9567 abstract</p>	1-19
A	<p>POLLARD A J ET AL: "The meningococcus tamed?" ARCHIVES OF DISEASE IN CHILDHOOD, vol. 87, no. 1, July 2002 (2002-07), pages 13-17, XP002263479 ISSN: 0003-9888 the whole document</p>	1-19

INTERNATIONAL SEARCH REPORT

Application No.
EP 03/06094**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 18 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Application No
PCT/EP/06094

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0209643 A	07-02-2002	AU 8088301 A	13-02-2002
		BR 0112928 A	26-08-2003
		CA 2416137 A1	07-02-2002
		EP 1322328 A2	02-07-2003
		WO 0209643 A2	07-02-2002
		US 2002110569 A1	15-08-2002
WO 0109350 A	08-02-2001	AU 6833600 A	19-02-2001
		BR 0012974 A	07-05-2002
		CA 2380840 A1	08-02-2001
		CN 1377415 T	30-10-2002
		CZ 20020403 A3	15-05-2002
		WO 0109350 A2	08-02-2001
		EP 1208214 A2	29-05-2002
		HU 0203056 A2	28-12-2002
		JP 2003506049 T	18-02-2003
		NO 20020506 A	02-04-2002
		TR 200200275 T2	21-05-2002
		TR 200202448 T2	21-01-2003